

WHAT IS CLAIMED IS:

1. A method of generating a Digital Item for electronic commercial transaction of multimedia data, the method comprising the steps of:

selecting a resource for electronic commercial transaction of multimedia data;
and

generating a Digital Item as a unit of manipulation of electronic commercial transaction for a corresponding multimedia resource defined to include an anchor for designating a selected source, a descriptor for describing a corresponding item, operational use conditions of the corresponding item, commercial use conditions of the corresponding item, a case report for describing aspects of the corresponding item that require reporting, and user preference data of the corresponding item.

2. The method according to claim 1, wherein the Digital Item consists of a lowest atomic Digital Item which is no longer divided and a packaged Digital Item, each item configuring a recurrent layered structure for each level.

3. The method according to claim 2, wherein the packaged Digital Item is formed to include an atomic Digital Item or a packaged Digital Item.

4. The method according to claim 2, wherein the packaged Digital Item is defined to include information (anchor) for designating a same level of Digital Item or information (anchor) for designating a lower level of Digital Item.

5. The method according to claim 2, wherein in order to configure the recurrent layered structure, the atomic Digital Item as a lowest layer is defined as component, and the packaged Digital Item as a middle layer including the component or the packaged Digital Item is defined as an item, a container as a highest package Digital

Item is formed with a highest layer having the Digital Item below or the container.

6. The method according to claim 2, wherein in order to configure the recurrent layered structure, the atomic Digital Item as the lowest layer is defined as component, items are arranged into package Digital Items being a middle layer formed of a component or a packaged Digital Item or the information (anchor) for designating a defined item, a highest layer including a container as a highest packaged Digital Item having a the Digital Item below or a container or information (anchor) for designating a defined container.

7. A method of generating a Digital Item for electronic commercial transaction, the method comprising the steps of:

selecting a resource for electronic commercial transaction of multimedia data;

including the selected resource and generating a component defined to include an anchor for the selected resource, a descriptor, operational use conditions, commercial use conditions, a case report, user input data;

generating an item defined to include at least one component or item or anchor for designating the component or item, choice for the item, the descriptor, the use conditions, the case report, user preferences, and reserved metadata; and

generating a container including one or more of the items or containers or an anchor indicating the items or containers, a descriptor for the container, use conditions, the case report, the user preferences, and the reserve metadata.

8. The method according to claim 7, wherein the choice is defined to include a recurrent choice of at least zero (0) or more, a descriptor of at least zero (0) or more, function conditions of at least zero (0) or more, and selections for selecting of at least zero (0) or more.

9. The method according to claim 8, wherein the selection defines the choices, and includes functional conditions that are a descriptor describing selection contents arranged at zero (0) or more and functional use conditions of the selection.

10. The method according to any one of claims 7 through 9, wherein all Digital Items, choices, selections, case reports, user preferences, reserve metadata, and descriptors used for the anchor include existing descriptors or anchors thereof arranged at zero (0) or more, components capable of describing contents of the descriptors or statements in text format described by the descriptors, and function conditions of the descriptors.

11. The method according to any one of claims 7 through 9, wherein all the Digital Items, case reports, user preferences, reserve metadata, and anchors used in the descriptors use distinguishers for uniquely describing atomic Digital Items and each Digital Item uniquely, descriptors describing the anchors, and function conditions describing the user formats of the anchors.

12. The method according to any one of claims 7 through 9, wherein the user conditions used for all the digital items, case reports, user preferences, reserve metadata describe the related items, managing of arranged model elements, and user rules in a description.

13. The method according to any one of claims 7 through 9, wherein all the Digital Items, descriptors, anchors, choices, and function conditions used for selections describe functional use conditions of related items or arranged model elements.

14. The method according to claim 13, wherein the function conditions of the Digital Items on a component level describe transmit bit ratios, video or image

resolutions, audio sampling rates, compression algorithms, keys or restoring conditions in the case of password implementation, and transmit protocols.

15. A method of generating a Digital Item for electronic commercial transaction of multimedia data, the method comprising the steps of:

selecting a resource for electronic commercial transaction of multimedia data;
and

generating a container, item and component as a Digital Item in order to provide a selected resource as the unit of manipulation for electronic commercial transaction, according to the following defining conditions:

- (a) container::=(anchor or container)*(anchor or item)*descriptor*mulCondition*eventReport*userPreference*reservedMetadata*
- (b) item::=(anchor or item or component)+choice*descriptor*mulCondition*eventReport*userPreference*reservedMetadata*
- (c) component::=resource anchor descriptor*userCondition*functionCondition*eventReport*userPreference*reservedMetadata*
- (d) anchor::=reference descriptor*opCondition*
- (e) descriptor::=(anchor or descriptor)*(component or statement)opCondition*
- (f) choice::=choice*selection+descriptor*opCondition*
- (g) selection::=predicate descriptor*opCondition*
- (h) eventReport::=anchor descriptor mulCondition
- (i) userPreference::=anchor descriptor mulCondition
- (j) reservedMetadata::=anchor descriptor mulCondition
- (k) opCondition::=predicate+
- (l) functionCondition::=predicate+